

Concept Map with Basic Concepts of Math Correlation

| Skill | Kindergarten | Grade 1 | Grade 2 | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 9 |
|---|---|--|--|---|--|--|---|---|--|--|
| Read, Write & Represent/ Decompose Numbers (Binder 1) | NK.1, NK.3 & NK.4: whole numbers to 10 BCM: 1,3, 4 | N1.2, N1.4 & N1.6: whole numbers to 20 BCM: 1, 5 | N2.1: whole numbers to 100 BCM: 4 | N3.1: whole numbers to 1000 BCM: 1 | N4.1: whole numbers to 10 000 & N4.7: decimals to hundredths BCM: 10b | N5.1: whole numbers to millions & N5.6: decimals to thousandths BCM: 6 | N6.1: multi-digit whole numbers & decimals BCM: 1 | | | |
| Counting (Binder 2) | NK.1: 1s forward & back from 0 to 10 NK.2: recognize at a glance to 5 BCM: 2, 3 | N1.1, N1.3, & N1.7: 1s forward & back to 100, 2s forward to 20, 5s & 10s forward to 100 & equal groupings with & without singles BCM: 2, 3, 4, 7 | N2.1: 1s, 2s, 5s & 10s forward & back to 100 starting at any number BCM: 2 | N3.1: 1s, 2s, 3s, 4s, 5s, 10s, 25s & 100s forward & back to 1000 starting at any number BCM: 12 | | | | | | |
| Comparing, Ordering & Sorting (Binder 3) | NK.5: sets of up to 10 elements BCM: 5a, 5b | N1.5 & N1.8: sets of up to 20 elements BCM: 6 | N2.1: whole numbers to 100 including even & odd BCM: 1, 3 | N3.1: whole numbers to 1000 BCM: 2 | N4.1: whole numbers to 10 000 BCM: 1, 2 | N5.1: whole numbers to millions & N5.6 decimals to thousandths BCM: 1, 7 | | | | |
| Adding (Binder 4 & 5) | | N1.9 & N1.10: whole numbers to 20 BCM: 8, 11, 12 | N2.2: whole numbers to 100 BCM: 5, 7 | N3.2: whole numbers to 1000 BCM: 3, 4 | N4.2: whole numbers to 10 000 & N4.8: decimals to hundredths BCM: 3, 11 | N5.4: whole numbers to millions - estimation & N5.7: decimals to thousandths BCM: 4, 9, 10 | | N7.2: multi-digit decimals BCM: 2 | | |
| Subtracting (Binder 4 & 5) | | N1.9 & N1.10: whole numbers to 20 BCM: 9, 10, 12 | N2.2: whole numbers to 100 BCM: 6, 8 | N3.2: whole numbers to 1000 BCM: 5, 6 | N4.2: whole numbers to 10 000 & N4.8: decimals to hundredths BCM: 4 | N5.4: whole numbers to millions - estimation & N5.7: decimals to thousandths BCM: 11, 12 | | N7.2: multi-digit decimals BCM: 2 | | |
| Multiplying (Binder 6 & 7) | | | | N3.3: whole numbers from 1X1 to 5X5 BCM: 7 | N4.3: whole numbers from 0X0 to 10X10 & N4.4: 2 or 3 digits by 1 digit BCM: 5, 6 | N5.2: up to 2 digits by 2 digits whole numbers N5.4: whole numbers to millions - estimation BCM: 2 | N6.4: multi-digit whole numbers & decimals BCM: 6 | N7.2: multi-digit decimals BCM: 2 | | |
| Dividing (Binder 6 & 7) | | | | N3.3: whole numbers to 25÷5 BCM: 8 | N4.3: whole numbers to 100÷10 & N4.5: 1 digit divisor with 1-2 digit dividend BCM: 7 | N5.3: 1 digit divisor & 1-3 digit dividend & N5.4: whole numbers to millions - estimation BCM: 3 | N6.4: multi-digit whole numbers & decimals BCM: 5 | N7.1: divisibility rules & N 7.2: multi-digit decimals BCM: 1 | | |
| Order of Operations with Whole Numbers & Decimals (Binder 7) | | | | | | | N6.3: multi-digit whole numbers (excl. exponents) BCM: 4 | N7.2: multi-digit decimals BCM: 2 | | |
| Factors & Multiples (Binder 7) | | | | | | | N6.2: factors, multiples & prime vs. composite factors BCM: 2a, 2b, 3 | | | |
| Squares & Square Roots (Binder 8) | | | | | | | | | N8.1: Perfect Squares, Square Roots including benchmarks of whole numbers & SS8.1: Pythagorean Theorem BCM: 1, 2, 14 | N9.3: Perfect Squares, Square Roots including benchmarks of rational numbers BCM: 8, 9, 10 |
| Exponents & Radicals (Binder 8) | | | | | | | | | | N9.1: Representing exponents, laws of exponents & exponent 0 BCM: 1, 2, 3, 4, 5 |

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|--|-------------------------------------|---|--|--|---|--|--|---|---|--|
| Fractions of a Whole (Binder 9) | | | | N3.4: naming, identifying & representing BCM: 9 | N4.6: naming, identifying & representing BCM: 9, 10a | | | | | |
| Fractions of a Set (Binder 9) | | | | N3.4: naming, identifying & representing BCM: 10 | N4.6: naming, identifying & representing BCM: 9 | | | | | |
| Mixed ↔ Improper Fractions (Binder 9) | | | | | | | N6.7: converting BCM: 9a, 9b | | | |
| Equivalent Fractions (Binder 9) | | | | | | N5.5: creating & recognizing BCM: 5 | | | | |
| Comparing & Ordering Fractions (Binder 9 & 10) | | | | N3.4: with same denominator BCM: 11 | N4.6: with same numerator or denominator BCM: 8 | N5.5: using equivalent fractions for like & unlike denominators BCM: 5 | N6.7: mixed & improper BCM: 10 | N7.3: comparing mixed & improper fractions to decimals, fractions & whole numbers BCM: 3 | | N9.2: comparing rational numbers, fractions, square roots & integers BCM: 6 |
| Percent ↔ Fractions ↔ Decimals (Binder 9 & 10) | | | | | N4.7: fractions (with denominators of 10 or 100) to decimals BCM: 10a, 10b | N5.6: fractions to decimals BCM: 8a, 8b | N6.5: fractions to decimals to percent (whole numbers to 100) BCM: 7 | N7.4: fractions to repeating &terminating decimals & fractional percents BCM: 4a, 4b | N8.2: fractional percents, decimal percents & percent of a number BCM: 3 | |
| Ratios & Rates (Binder10) | | | | | | | N6.8: part to part & part to whole BCM: 11 | | N8.3: rates, ratios & proportional reasoning BCM: 4 | |
| Adding Fractions (Binder 11) | | | | | | | | N7.5: fractions & mixed numbers with like & unlike denominators BCM: 7 | | |
| Subtracting Fractions (Binder 11) | | | | | | | | N7.5: fractions & mixed numbers with like & unlike denominators BCM: 5, 6 | | |
| Multiplying Fractions (Binder 11) | | | | | | | | | N8.4: fractions & mixed numbers BCM: 5, 6 | |
| Dividing Fractions (Binder 11) | | | | | | | | | N8.4: fractions & mixed numbers BCM: 7 | |
| Order of Operations with Fractions & Integers (Binder 11) | | | | | | | | | N8.4, N8.5: fractions, mixed numbers & integers BCM: 8 | N9.2: rational numbers & integers BCM: 7 |
| Integers (Binder 12) | | | | | | | N6.6: explain & compare BCM: 8 | N7.6: addition & subtraction BCM: 8, 9, 10 | N8.5: multiplication & division BCM: 9, 10, 11 | |
| Patterns & Relations (Binder 13 & 14) | PK.1: repeating, BCM: 6a, 6b | P1.1 & P1.2: repeating, 2 to 3 elements BCM: 13, 14 | P2.1 & P2.2: repeating/increasing, 2 to 4 elements BCM: 9, 10, 11 | P3.1: increasing & decreasing BCM: 12 | P4.1: charts, tables & diagrams BCM: 12 | P5.1: table of values and expressions without coefficients BCM: 13 | P6.1: table of values & linear graphs BCM: 12 | P7.1: patterns, tables, graphs & linear relations BCM: 11 | P8.1: equation, table & graph of linear relations BCM: 12, 13 | P9.1: graphing, interpolation & extrapolation of linear relations BCM: 11 |
| Equations & Equality (Binder 15 & 16) | | P1.3: equality vs. inequality (as balance vs. imbalance) & P1.4: using equal symbol BCM: 15, 16 | P2.3: equality vs. inequality BCM: 12 | P3.2: one-step addition/subtraction equations involving symbols BCM: 13 | P4.2: writing & solving one-step equations BCM: 13a, 13b | P5.2: single variable, one-step equations with coefficients BCM: 14, 15, 16, 17 | P6.2: preservation of equality & P6.3: commutative property; expressions & relations BCM: 13, 14 | P7.2: equations vs. expressions P7.3: one- & two-step linear including whole numbers & P7.4: linear equations involving integers BCM: 12, 13, 14, 15 | P8.2: linear equations & distributive property with integers BCM: 12, 13 | P9.2: solving linear equations & writing linear equations from a table & P9.3: solving & graphing inequalities BCM: 12, 13, 14 |
| Polynomials (Binder 17) | | | | | | | | | | P9.4: terms, operations & representing BCM: 15, 16, 17 |